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What is claimed is:

(Claim 1) 1. A method of parsing a data file containing a plurality of data elements according to a markup language, said method comprising:

receiving a file identifier of said data file from an application;

retrieving a first data element from said data file, wherein said first data element is comprised in said plurdity of data elements;

determining a portion identifier of said first data element; and providing said portion identifier associated with said first data element to said application.

- (Claim 2) 2. The method of daim 1, wherein said markup language comprises XML and said partian identifier comprises an XPath.
- (Claim 3) 3. The method of daim 1, wherein said providing provides said portion identifier and said first data element according to an application programming interface (API), wherein said application obtains said portion identifier and said first data element by using one or more procedure alls according to said API.
- (Claim 4) 4. The method of daim 3, wherein said API is defined to provide said partian identifier and said first data element as respective parameters of a single procedure adI.
- (Claim 5) 5. The method of daim 4, wherein said parsing is performed by an event-based parser.
- (Claim 6) 6. The method of daim 3, wherein said parsing is performed by an object oriented parser, wherein said providing further comprises:

storing said first data element and said portion identifier in a data structure, wherein said application obtains said first data element and said portion identifier from said data structure.

- (Claim 7) 7. The method of daim 3, wherein said API provides a procedure for said application to request that said XPath is to be provided either in abbreviated or non-abbreviated format.
- (Claim 8) 8. The method of daim 3, wherein said API provides a procedure for said application to request that attributes related to said first data element are to be returned as XPaths.
- (Claim 9) 9. The method of daim 3, wherein said API provides a procedure for said application to request that attributes related to said first data element are to be returned as values associated with said first data element.

- (Claim 10) 10. The method of daim 3, wherein said parsing is performed according to a push parsing approach, wherein said API provides a procedure for said parsing to provide said Xpath to said application.
- (Claim 11) 11. The method of daim 10, wherein said API allows said application to set a variable to a value to cause said procedure to provide attributes of said data element along with said XPath.
- (Claim 12) 12. A method of implementing an application using data contained in a data file, said data file containing data according to a markup language, said method comprising:
 - instructing a parser to parse said data file of interest;
- obtain a portion identifier associated with a data element from said parser, wherein said portion identifier identifies said data element in said data file according to said markup language; and processing said data element and said portion identifier.
- (Claim 13) 13. The method of daim 12, wherein said markup language comprises XML and said portion identifier comprises XPath.
- (Claim 14) 14. The method of daim 12, wherein said obtaining obtains said portion identifier and said first data element according to an application programming interface (API).
- (Claim 15) 15. The method of daim 14, wherein said API is defined to provide said partion identifier and said first data element as respective parameters of a single procedure call.
- (Claim 16) 16. The method of daim 15, wherein said parser comprises an event-based parser.
- (Claim 17) 17. The method of daim 14, wherein said parser comprises an object oriented parser, wherein said obtaining further comprises accessing said first data element and said portion identifier in a data structure.
- (Claim 18) 18. The method of daim 14, wherein said API provides a procedure for said application to request that said XPath is to be provided either in abbreviated or non-abbreviated format.
- (Claim 19) 19. The method of daim 14, wherein said API provides a procedure for said application to request that attributes related to said first data element are to be returned as XPaths.

- (Claim 20) 20. The method of daim 14, wherein said API provides a procedure for said application to request that attributes related to said first data element are to be returned as values associated with said first data element.
- (Claim 21) 21. A computer readable medium carrying one or more sequences of instructions causing a digital processing system to parse a data file containing a plurdity of data elements according to a markup language, wherein execution of said one or more sequences of instructions by one or more processors contained in said digital processing system causes said one or more processors to perform the actions of:
 - receiving a file identifier of said data file from an application;
- retrieving a first data element from said data file, wherein said first data element is comprised in said plurdity of data elements;
 - determining a portion identifier of said first data element; and providing said portion identifier associated with said first data element to said application.
- (Claim 22) 22. The computer readable medium of daim 21, wherein said markup language comprises XML and said partian identifier comprises on XPath.
- (Claim 23) 23. The computer readable medium of daim 21, wherein said providing provides said portion identifier and said first data element according to an application programming interface (API), wherein said application obtains said portion identifier and said first data element by using one or more procedure adls according to said API.
- (Claim 24) 24. The computer readable medium of daim 23, wherein said API is defined to provide said partian identifier and said first data element as respective parameters of a single procedure adl.
- (Claim 25) 25. The computer readable medium of daim 24, wherein said parsing is performed by an event-based parser.
- (Claim 26) 26. The computer readable medium of daim 23, wherein said parsing is performed by an object oriented parser, wherein said providing further comprises:
- storing said first data element and said portion identifier in a data structure, wherein said application obtains said first data element and said portion identifier from said data structure.
- (Claim 27) 27. The computer readable medium of daim 23, wherein said API provides a procedure for said application to request that said XPath is to be provided either in abbreviated or non-abbreviated format.

- (Claim 28) 28. The computer readable medium of daim 23, wherein said API provides a procedure for said application to request that attributes related to said first data element are to be returned as XPaths.
- (Claim 29) 29. The computer readable medium of daim 23, wherein said API provides a procedure for said application to request that attributes related to said first data element are to be returned as values associated with said first data element.
- (Claim 30) 30. The computer readable medium of daim 23, wherein said parsing is performed according to a push parsing approach, wherein said API provides a procedure for said parsing to provide said Xpath to said application.
- (Claim 31) 31. The computer readable medium of daim 30, wherein said API allows said application to set a variable to a value to cause said procedure to provide attributes of said data element along with said XPath.
- (Claim 32) 32. A computer readable medium carrying one or more sequences of instructions causing a digital processing system to implement an application using data contained in a data file, said data file containing data according to a markup language, wherein execution of said one or more sequences of instructions by one or more processors contained in said digital processing system causes said one or more processors to perform the actions of:
 - instructing a parser to parse said data file of interest;
- obtain a portion identifier associated with a data element from said parser, wherein said partion identifier identifies said data element in said data file according to said markup language; and processing said data element and said portion identifier.
- (Claim 33) 13. The computer readable medium of daim 32, wherein said markup language comprises XML and said portion identifier comprises XPath.
- (Claim 34) 34. The computer readable medium of daim 32, wherein said obtaining obtains said portion identifier and said first data element according to an application programming interface (API).
- (Claim 35) 35. The computer readable medium of daim 34, wherein said API is defined to provide said portion identifier and said first data element as respective parameters of a single procedure adl.
- (Claim 36) 36. The computer readable medium of daim 35, wherein said parser comprises an event-based parser.

(Claim 37) 37. The computer readable medium of daim 34, wherein said parser comprises an object oriented parser, wherein said obtaining further comprises accessing said first data element and said portion identifier in a data structure.

(Claim 38) 38. The computer readable medium of daim 34, wherein said API provides a procedure for said application to request that said XPath is to be provided either in abbreviated or non-abbreviated format.

(Claim 39) 39. The computer readable medium of daim 34, wherein said API provides a procedure for said application to request that attributes related to said first data element are to be returned as XPaths.

(Claim 40) 40. The computer readable medium of daim 34, wherein said API provides a procedure for said application to request that attributes related to said first data element are to be returned as values associated with said first data element.